ICES Request Form

Request from	European Commission, DG MARE, Unit C1
Contact within organisation	
Content contact person	
Request announced	28-05-2019
Request received	
Answer deadline client	
Request code (client)	
Request code (ICES)	
Request	Seabass Simulation Tool

ICES is requested to develop a simulation tool using excel, R or similar accessible software that could be used by managers to determine the impact of different catch allocation scenarios by gear and month in terms of the total catch that would be generated. This tool is intended to be used for seabass which includes a recreational component and by-catches in commercial fisheries. Assessment historical data such as, mean length at age and mean weight at age by gear would be used to inform the tool.

In addition to a number of given catch allocation scenarios, the tool would have as main input the ICES catch advice or any other desired catch value.

The tool would allow gear specific catch limits to be set either in weight, numbers of fish or both by year or monthly steps and these would be used to explore catch allocation scenarios to determine which one(s) are compatible with the desired catch value. The tool should also allow calculation of the approximate fishing mortality (F) level implied for each gear under each scenario.

If possible, the tool should also account for varying the % per day or a % per trip catch composition restrictions and the result that changes to these measures would have on seabass catches, landings and discards.

The main aim of the tool is to test different management and catch-limit allocation scenarios so the output "catch by gears" should amount to the initial catch advice input.

Grey cells to be filled in by ICES